ENVIRONMENTAL CHEMISTS

Date of Report: 11/10/99 Date Received: 10/28/99

Project: Metro Self Monitor, PO# M62918

Date Samples Extracted: 11/08/99 Date Extracts Analyzed: 11/09/99

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010

Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

Sample ID	Chromium	Copper	Nickel	Zinc
M62918	0.83	1.1	0.79	0.29
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

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Project: Metro Self Monitor, PO# M62918

QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 911031-01 (Duplicate)

용 회교 회원 중 입니다 나를 모음하다.				Relative	
	Reporting	Sample	Duplicat	te Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.15	0.14	7	0-20
Copper	mg/L (ppm)	0.25	0.21	17	0-20
Nickel	mg/L (ppm)	0.23	0.24	4	0-20
Zinc	mg/L (ppm)	< 0.05	< 0.05	nm	0-20

Laboratory Code: 911031-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recove	ery % Recov	ery	Acceptance		
Analyte	Units	Level	Result	MS	MSD		Criteria	RPD	
Chromium	mg/L (ppm)	5	0.15	103	101		80-120	2	- -
Copper	mg/L (ppm)	5	0.25	95	97		80-120	2	
Nickel	mg/L (ppm)	10	0.23	104	101		80-120	3	
Zinc	mg/L (ppm)	5	< 0.05	109	112		80-120	3	

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recove	ry % Recove	ry Acceptanc	e		
Analyte	Units	Level	LCS	LCSD	Criteria	R	RPD	
Chromium	mg/L (ppm)	5	111	112	80-120		1	
Copper	mg/L (ppm)	5	109	108	80-120		1	
Nickel	mg/L (ppm)	10	115	114	80-120		1	
Zinc	mg/L (ppm)	5	114	115	80-120		1	

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

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SAMPLE CHAIN OF CUSTODY

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 10, 1999

DUPLICATE COPY

INVOICE #99ACU1110-4

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M62918: Results of testing requested by Gerry Thompson for material submitted on October 28, 1999.

1 water sample analyzed for Chromium, Copper, Nickel, and Zinc using Method 6010 @ \$80 per sample \$80.00

Amount Due \$80.00

PLEASE NOTE: As a convenience for our valued clients, we can accept credit cards (VISA, MasterCard or government purchasing cards) for payment on our invoices. Please contact our office if you would like to take advantage of this service.

FEDERAL TAX ID (b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 10, 1999

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on October 28, 1999 from your Metro Self Monitor, PO# M62918 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Dianne C. Hurt Project Manager

Enclosures ACU1110R.DOC